

60. (New) The method of claim 1, wherein said mutation at position 193 is determined by contacting said HFE nucleic acid with a nucleic acid sequence comprising the nucleotide sequence of SEQ ID NO:30.

61. (New) The method of claim 1, wherein said mutation at position 193 is determined by contacting said HFE nucleic acid with a nucleic acid sequence comprising nucleotides 67-339 of SEQ ID NO:1.

62. (New) The method of claim 1, wherein said mutation at position 193 is determined by contacting said HFE nucleic acid with a nucleic acid sequence comprising nucleotides 172-204 of SEQ ID NO:1.

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63. (New) The method of claim 1, wherein said mutation at position 193 is detected by contacting said HFE nucleic acid with a nucleic acid sequence comprising nucleotides 4652-4915 of SEQ ID NO:27.

64. (New) The method of claim 1, further comprising determining the presence of a mutation in exon 4 at nucleotide 845 of SEQ ID NO:1.

65. (New) The method of claim 64, wherein said mutation at position 845 is determined by contacting said HFE nucleic acid with a nucleic acid sequence comprising nucleotides 6494-6769 of SEQ ID NO:27.

66. (New) The method of claim 1, further comprising determining the presence of a mutation in intron 4 at nucleotide 6884 of SEQ ID NO:27.

67. (New) The method of claim 66, wherein said mutation at position 845 is determined by contacting said HFE nucleic acid with a nucleic acid sequence comprising nucleotides 6770-6927 of SEQ ID NO:27.
